

Expand Public Safety Operability - Interoperability



Mr. Kevin Rogers
Manager
Wireless Systems Bureau
Arizona DPS



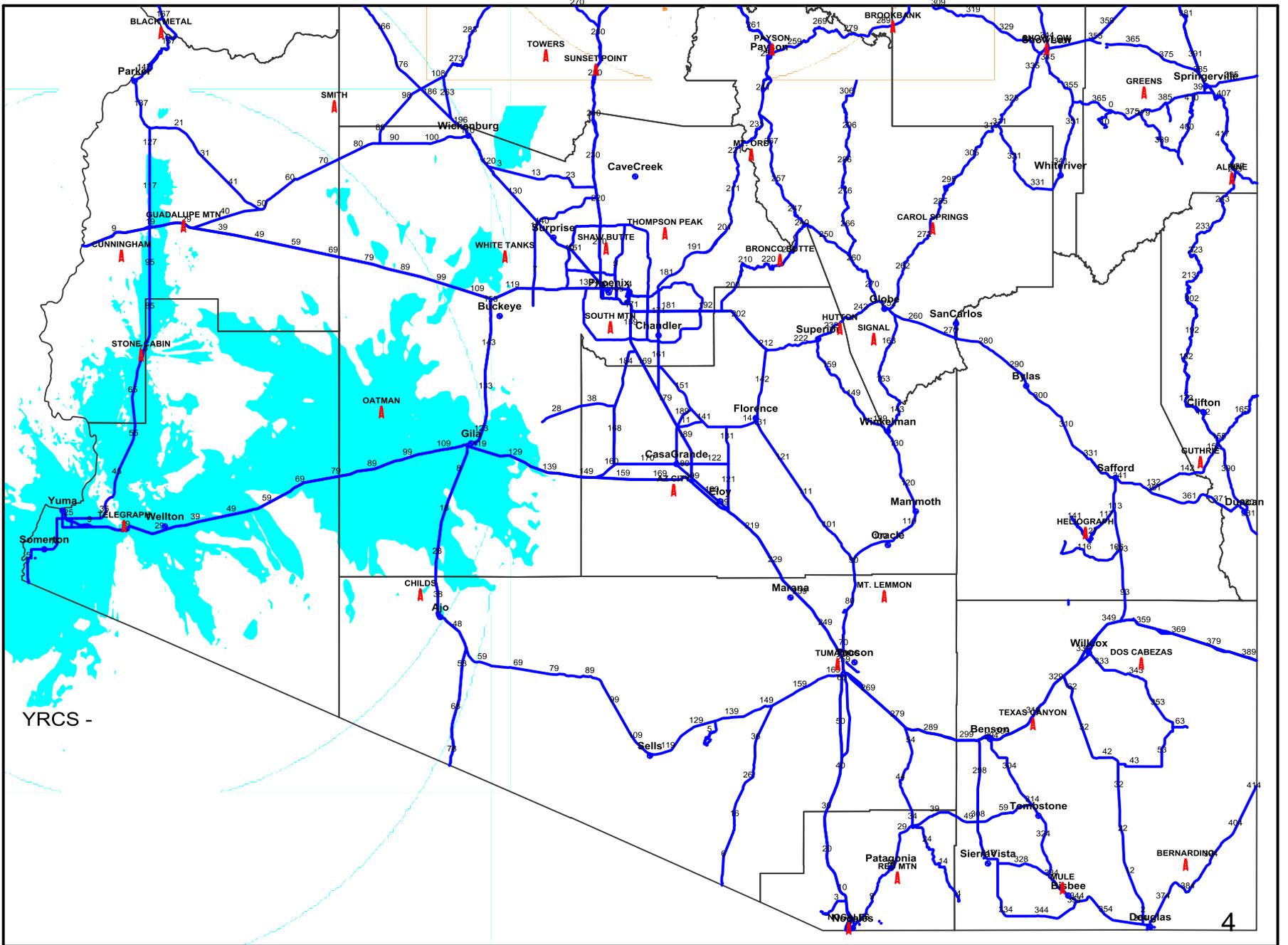
Mr. Greg Wilkinson
City Administrator
City of Yuma

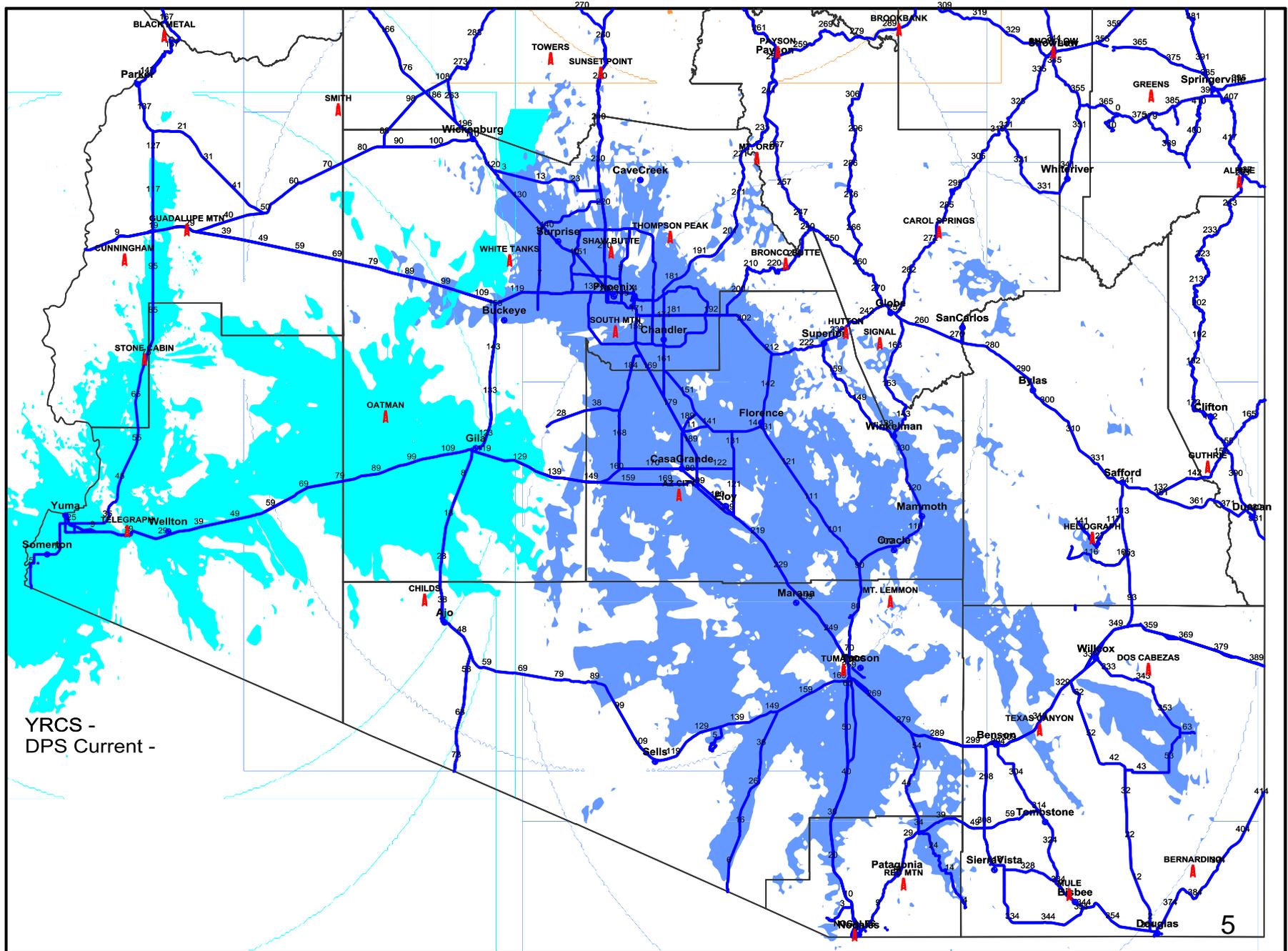
THE TECHNOLOGY

- **Macro Corporation, 2004.**
- **Gartner Group 2005.**
- **Federal Engineering Inc., 2007.**
- **Recommended 700 MHz P25 statewide digital trunked communications system.**
- **PSCC/DPS approved technology standard on April 24, 2007.**

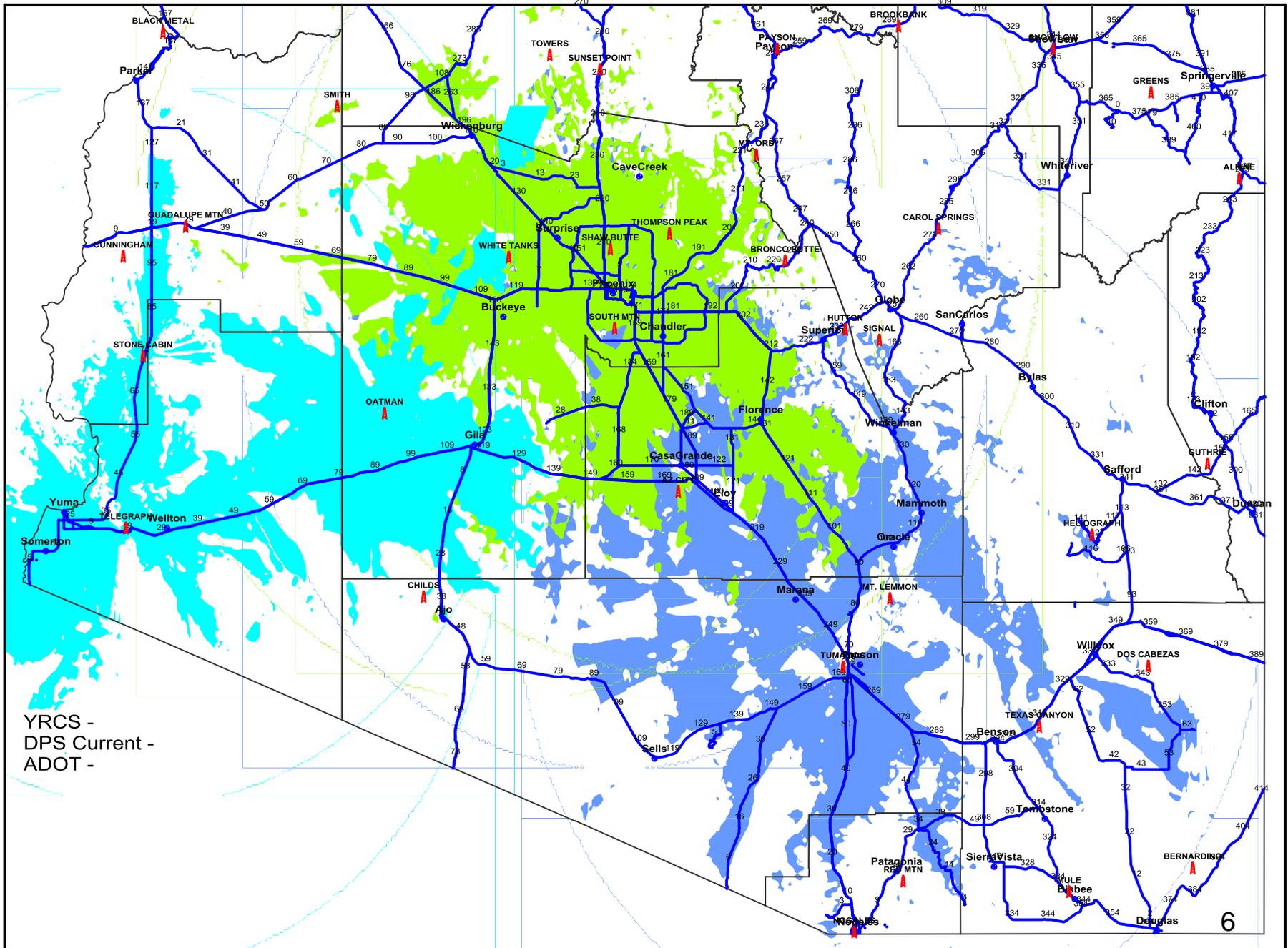
THE DIRECTION

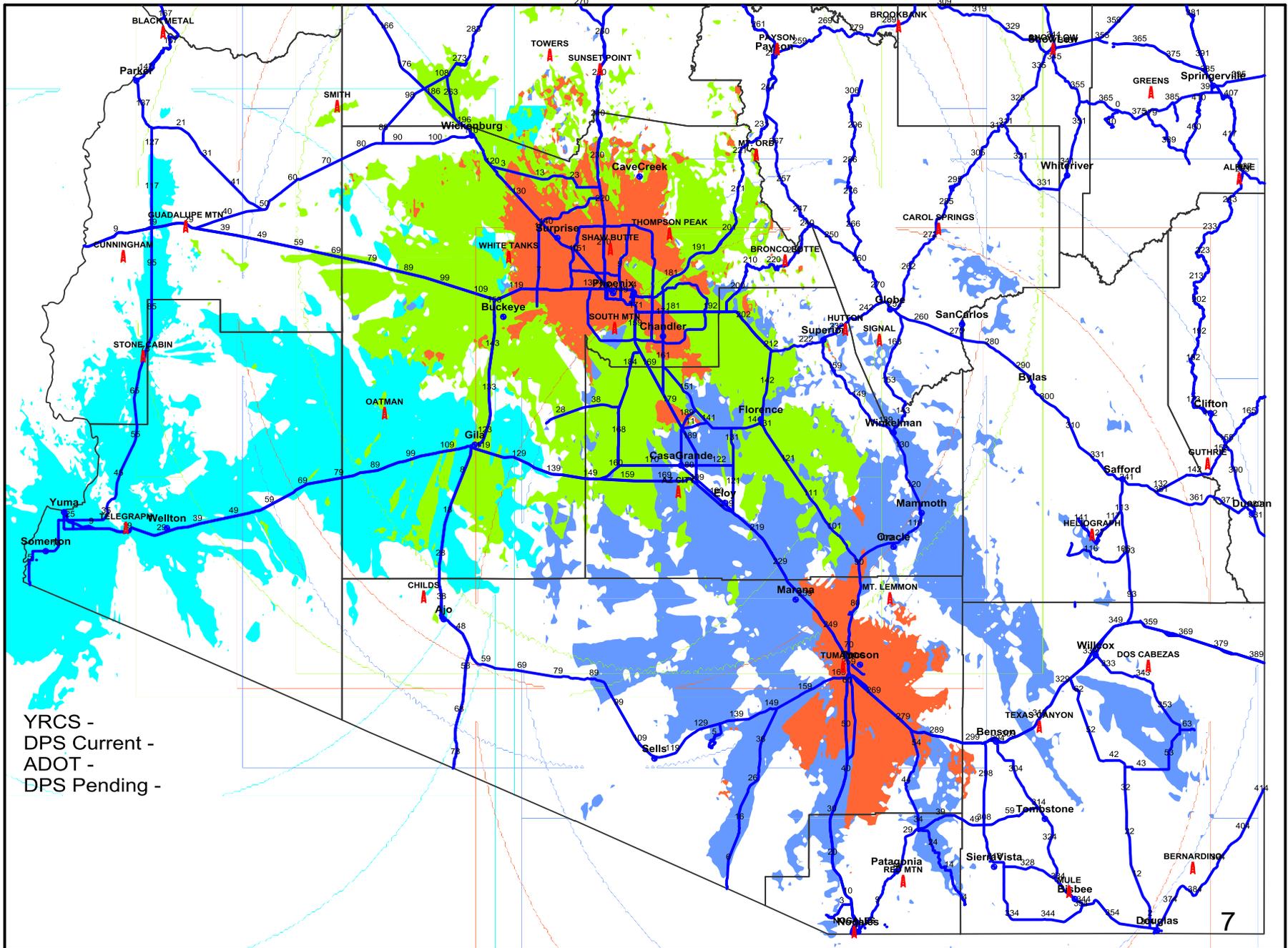
- **End of life ADOT 800 Mhz Trunk System.**
- **Leverage the use of an existing systems.**
- **A design that will enhance operability.**
- **Build upon previous work/projects.**
- **Provide the most coverage over large population area and meet FCC's first construction deadline.**



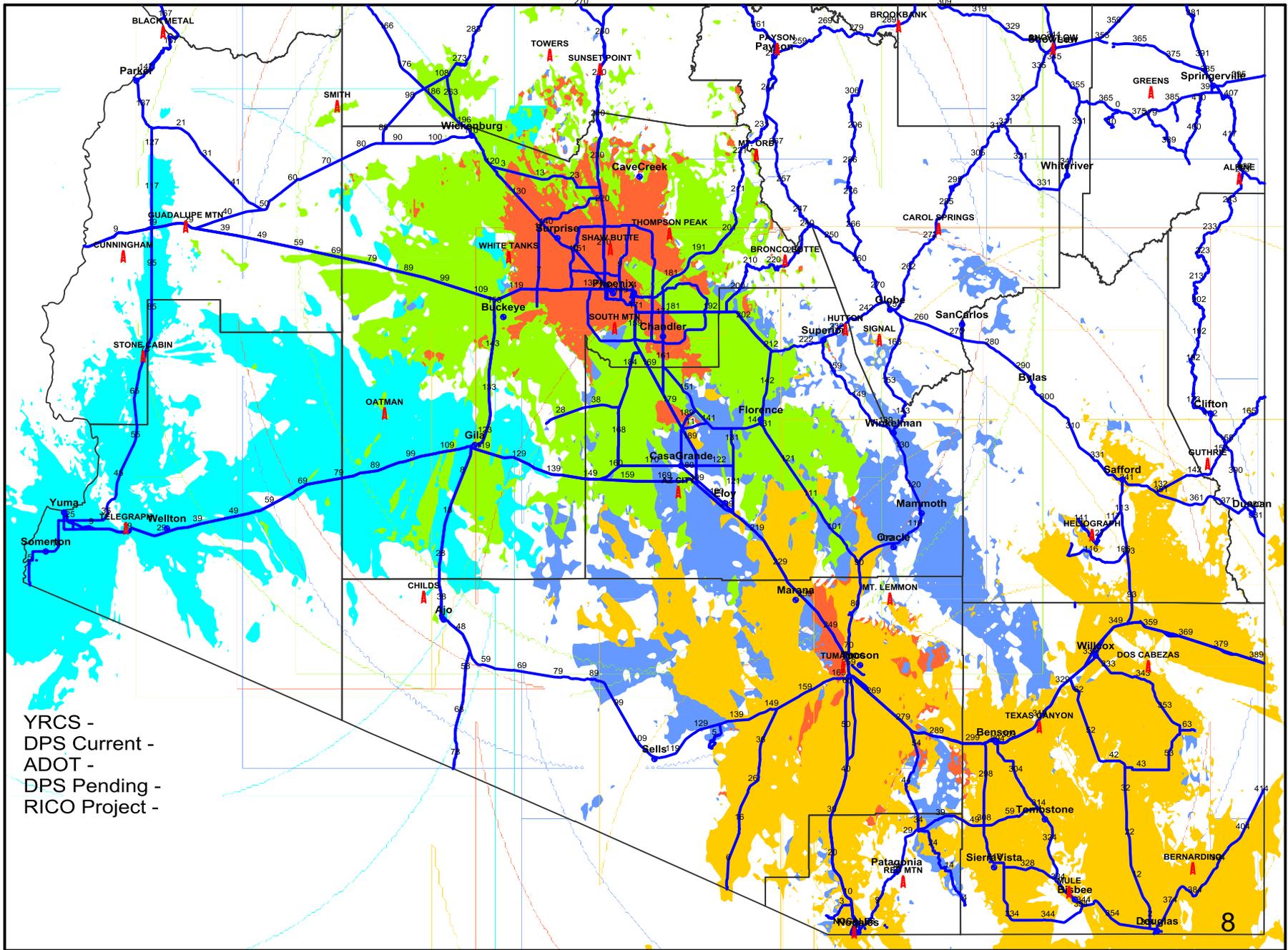


Map labels include: BLACK METAL, PARKER, SMITH, WICKIPBURG, TOWERS, SUNSET POINT, PAYSON, BROOKBANK, SNOWFLOW, GREENS, Springerville, CaveCreek, MIFOR, WhiteRiver, ALBANE, GUADALUPE MTN, CUNNINGHAM, Surprise, THOMPSON PEAK, CAROL SPRINGS, WHITE TANKS, SHAW BUTTE, BRONCOS BUTTE, HUTTON, SIGNAL, San Carlos, Bickeye, Phoenix, Chandler, Florence, Wickenburg, Bylas, Gila, Casa Grande, AZONA, Ploy, Marana, MT. LEMMON, Oracle, Manmoth, Safford, GUTHRIE, Yuma, TELEGRAPH, Wellton, Somerton, CHILDS, Ajo, TUMACACI, Tucson, Sells, Patagonia, RED MTN, Sierra Vista, BULLEE, Douglas, WILLOW, DOS CABEZAS, TEXAS CANYON, Benson, Tomestone, BERNARDINO.





YRCS -
 DPS Current -
 ADOT -
 DPS Pending -



Multi-Band Portable Radios

Harris Unity XG-100



Motorola APX 7000



Funding provided by:



AZDOHS

**ARIZONA DEPARTMENT
OF HOMELAND SECURITY**



700 MHz P25 Trunking

- **ADOT transitioning to system for operability and DPS interoperability.**
- **DPS GIITEM task force for operability, additional capacity, interoperability with Highway Patrol UHF.**
- **DPS Highway Patrol interoperability with Yuma Police and Sheriff.**
- **DPS Criminal Investigation Division for additional capacity and Advanced Encryption Standards.**

Yuma Regional Communications System



Mr. Greg Wilkinson
City Administrator
City of Yuma

Yuma Regional Communications System



BIDP Grant Award Overview

Overview and Objectives

- Project Title
 - Yuma Full Voice and Data Integration Demonstration Project
- Objectives
 - Improve day-to-day interoperable emergency communications between local, tribal, State, and Federal entities, and international partners along and across international borders for both voice and data
 - Improve interoperable emergency communications between emergency response providers responding to threats and natural disasters on the border

Partner Entities

- City of Yuma – Police and Fire Departments
- Yuma County Sheriff
- Yuma County Office of Emergency Management
- Cocopah – Police Department
- City of San Luis – Police and Fire Departments
- City of Somerton/Cocopah Tribal Fire Department
- Quechan Tribal Police Department
- Town of Wellton
- Arizona Department of Public Safety
- Arizona Department of Transportation
- Arizona Department of Emergency Management
- Marine Corps Air Station
- US Army Yuma Proving Grounds
- US Customs and Border Patrol – Yuma Sector
- US Marshall's Office – Yuma Arizona
- Alcohol Tobacco and Firearms – Yuma
- Federal Bureau of Investigations – Yuma
- Drug Enforcement Agency – Yuma

Overall Plan

- Expand
 - P25 Voice radio system
 - CAD/RMS/JMS/MDC Data system to integrate Federal, State, and local agencies
 - Tie in the Arizona State EOC to P25 system
 - Integrate San Luis Sonora Mexico's C4 system
- Expand Microwave and Fiber infrastructure
 - Open MW loop to integrate USCBP and MCAS and utilize existing YPG fiber for voice and data . USCBP also a “get ready” for video and “Secure Cross Border Network” from Mexico. Pass to the State EOC

Proposed Equipment Allocation

Agency	USCBP	US Marshall	MCAS	AzDPS	AZ State	YPG
<i>IP P25 Radio Console</i>	1	0	0	1		1
Data Interop Console	1	1	1	1		1
Mobile Data Computer	1	0	4	1		3
Microwave link	1	0	1			
Border Enforcement vehicle	0	0	0			
P25 800/700MHz radio	0	0	0		3	
VHF Repeater						
CCGW's						

Project Outcome

- Demonstrate that Federal, State, Tribal, and Local Public Safety agencies can co-exist, interoperate, and provide for seamless interoperability for voice and data systems
- Encompasses local, state, tribal, federal, interstate (California) and international (Mexico) integration and interoperability
- Provides the latest in state-of-the-art technology while leveraging current standards

“The Total Vision Approach”



for the future of interoperability

Department of Energy and Chrysler Grant

The purpose of the project, totaling \$48 million from DOE and \$49.4 million from Chrysler Group, is to help develop vehicles that will be cost-efficient for consumers, satisfy safety concerns of daily travel without recharging, and reduce dependence on foreign oil.



Questions?



Mr. Greg Wilkinson
City of Yuma



Mr. Kevin Rogers
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